**Concept :**

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1) Establishing inter RF badge communication directly . (Independently patent able and licensable)
2) Intelligent Badges , identifies adjacent badges in a perimeter say 1-2 mtrs .
3) Intelligent badges sends the set of adjacent badges to central location thru RF/IR.
4) Resolve the sets received from the intelligent badges and identify the adjacent badges

Note : 2-5 as group can be patented as solution for resolving badges in densely populated situation.

Theory :

With few intelligent badges and no communication between badges.
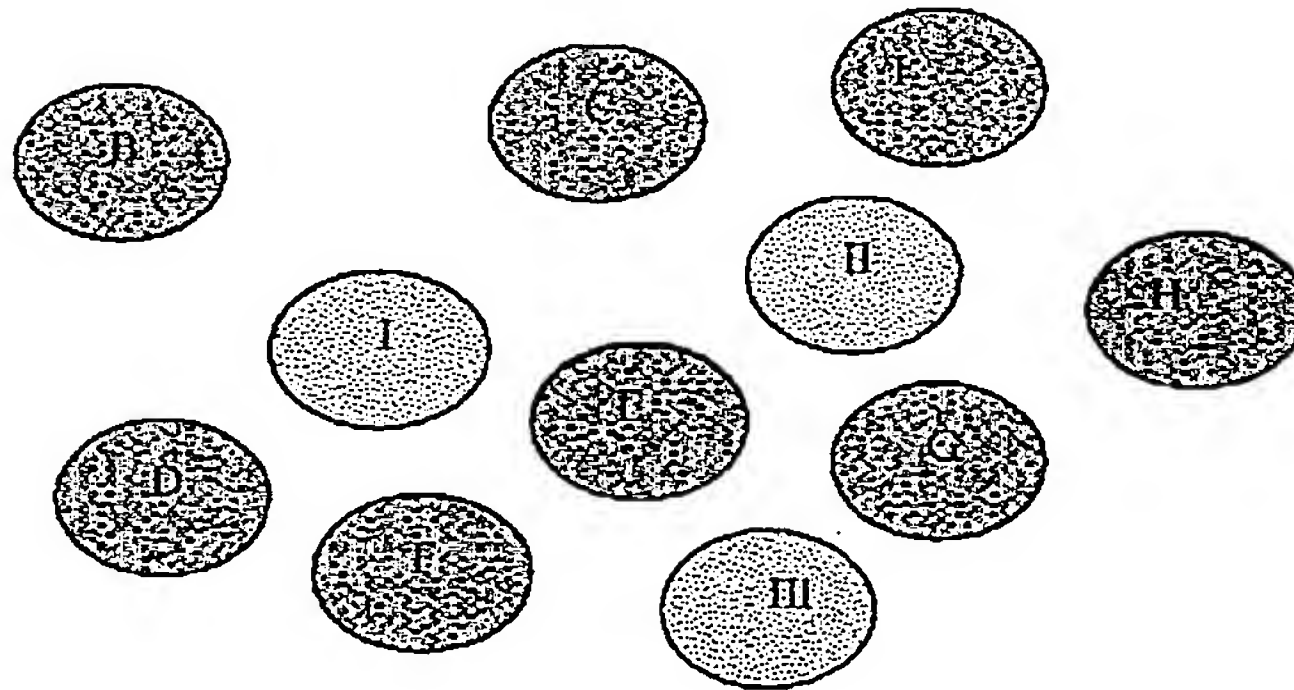
The Yellow colored badges are intelligent Badges capable of recognizing the adjacent badges and inform the central location.
The gray colored badges are ordinary badges which directly informs their presence in a reader zone .

How to identify individual badges :

For example Intelligent badge I , sends the following set of badges adjacent to it
{ B,C,D,E,F}

intelligent badge II sends

{ E,C,I,H,G}

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Intelligent Badge III sends

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{ E,F,G .. }

From above sets , we can locate E , F very distinctively .

If the Intelligent badges number is increased and its periphery of influence is reduced to say 1 mtr , we will get more number of sets from intelligent badges and less no of members in Sets . And the individual badges can be resolved ,
Fast *and effectively .*

With inter badge communication network (Patentable Concept)

As depicted in the pictures above , if an inter badge communication is achieved Then each and every badge becomes and intelligent badge and the number of sets formed from the intelligent devices are very high and the members in the sets or the actual badges can be resolved very easily , from the concept explained above solution I